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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/729,103		12/05/2003	Mark Peterson	IFC 301A 3072		
23581	7590	08/11/2004		EXAMINER		
KOLISCH I		•	CRUZ, MAGDA			
520 S.W. YA SUITE 200	MHILL	STREET		ART UNIT	PAPER NUMBER	
PORTLAND, OR 97204				2851		
				DATE MAILED: 08/11/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)						
			10/729,103 PETERSON ET AL.							
	Office Action Summary	Examiner		Art Unit						
	•	Magda C		2851						
	The MAILING DATE of this communication									
	Period for Reply									
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOns ions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory perion to reply within the set or extended period for reply will, by steply received by the Office later than three months after the need patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no even n. a reply within the stat eriod will apply and w tatute, cause the app	ent, however, may a reply be tim utory minimum of thirty (30) days ill expire SIX (6) MONTHS from t lication to become ABANDONED	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).						
Status										
1)[\inf	Responsive to communication(s) filed on <u>6</u>	05 December 2	003.							
		This action is n								
3)										
-,_	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Disposit	ion of Claims									
·		tion								
•	 4) Claim(s) 1-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 									
	5) Claim(s) is/are allowed.									
· -	☐ Claim(s) 1-26 is/are rejected.									
7)	7) ☐ Claim(s) is/are objected to.									
8)[8) Claim(s) are subject to restriction and/or election requirement.									
Applicat	ion Papers									
9)□	The specification is objected to by the Exar	miner.	J							
•	The drawing(s) filed on <u>05 December 2003</u>		ccepted or b) abjecte	ed to by the Examiner.						
,—	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
	Replacement drawing sheet(s) including the co	rrection is requir	ed if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.										
Priority (ınder 35 U.S.C. § 119									
12)	Acknowledgment is made of a claim for for	eign priority un	der 35 U.S.C. § 119(a)	-(d) or (f).						
	☐ All b)☐ Some * c)☐ None of:		•							
	1. Certified copies of the priority documents have been received.									
2. Certified copies of the priority documents have been received in Application No										
	3. Copies of the certified copies of the priority documents have been received in this National Stage									
	application from the International Bureau (PCT Rule 17.2(a)). Rodney Fuller									
* 5	* See the attached detailed Office action for a list of the certified copies not received. Primary Examiner									
				011						
Attachmen	t(s)			1.7 fl						
	e of References Cited (PTO-892)		4) Interview Summary							
	2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)									
	r No(s)/Mail Date	<i>3,</i> 30 _j	6) Other:	, , , , , , , , , , , , , , , , , , , ,	W					
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DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "lens positioned adjacent the reflective surface" (Claim 4) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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2. In addition to Replacement Sheets containing the corrected drawing figure(s), applicant is required to submit a marked-up copy of each Replacement Sheet including annotations indicating the changes made to the previous version. The marked-up copy must be clearly labeled as "Annotated Marked-up Drawings" and must be presented in the amendment or remarks section that explains the change(s) to the drawings. See 37 CFR 1.121(d). Failure to timely submit the proposed drawing and marked-up copy will result in the abandonment of the application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35U.S.C. 102 that form the basis for the rejections under this section made in thisOffice action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claim 20 is rejected under 35 U.S.C. 102(b) as being anticipated by Takahashi, et al.

Takahashi, et al. (US Patent Number 4,729,631) discloses a rear projection display system (Figure 16B) comprising an image source (P), a rear reflective surface (M), a screen (S) including a lens array (column 7, lines 25-26) and a mirror (M) array positioned adjacent the lens array (see Figures 16A-16C), wherein the lens array a plurality of lenses (Figure 13) configured to direct light incident on the screen (S) from a first angle onto the mirror array to be reflected

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toward the rear reflective surface, and wherein the screen is configured to direct incident light from a second angle through the mirror array for display to a viewer (column 7, lines 34-45; Figures 16B and 16C). Furthermore, the screen (S) includes an internal reflection element (Figure 4) configured to internally reflect light incident on the screen (S) from a first angle (θ_1) toward the rear reflective surface, and to transmit incident light from a second angle (θ_2) through the screen (S); wherein the internal reflection elements includes a plurality of prism elements (1) having a generally pyramidal cross-sectional shape (Figure 9).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-4, 6-11, 14-19 and 21-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takahashi, et al. in view of Kato et al.

Takahashi, et al. (US Patent Number 4,729,631) teaches the salient features of the present invention, except a plurality of angularly discriminating reflective elements configured to reflect light, having a dark color for improved contrast, wherein the screen includes a plurality of vertical pixels; and wherein said screen is configured to reflect light incident on the screen. However,

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Takahashi, et al. discloses prisms (1; i.e. reflection element) coaxially extended in the horizontal direction on the screen.

Kato et al. (US Patent Number 4,066,332) discloses a plurality of angularly discriminating reflective elements (5) configured to reflect light, having a dark color for improved contrast (column 1, lines 54-58), wherein the screen includes a plurality of vertical pixels (column 5, lines 47-50); and wherein said screen is configured to reflect light incident on the screen (column 2, lines 3-5).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to utilize the plurality of angularly discriminating reflective elements disclosed by Kato et al. in substitution of the reflection element disclosed by Takahashi, et al.'s invention, for the purpose of having an luminance range sufficient to faithfully reproduce the density range of a projected image (column 1, lines 11-13).

Double Patenting

7. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

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A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

8. Claims 5 and 12-13 are rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 3-4 of prior U.S. Patent No. 6,728,032 B2. This is a double patenting rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Magda Cruz whose telephone number is (571) 272-2114. The examiner can normally be reached on Monday through Thursday 8:00-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Magda Cruz Patent Examiner August 5, 2004 Rodney Fuller
Primary Examiner